

In the Specification

Please amend the specification as follows:

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Figure 2 illustrates the metamerism wherein two patches with different spectral reflectances, $R_1(\lambda)$ and $R_2(\lambda)$, which match under one illuminations $S_1(\lambda)$, and do not match under a second illumination, $S_2(\lambda)$.

Figure 3 illustrates a flowchart showing a process for improving printer characterization to more accurately reproduce desired colors on a destination printing device given the ambient illumination at the location where the printer's output is intended to be viewed.

Figure 4 illustrates a flowchart showing a process for producing targets.

Figure 5 illustrates a flowchart showing a process for producing the metameric pairs for each illuminant of interest.

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Figure 3 illustrates a flowchart showing a process for improving printer characterization to more accurately reproduce desired colors on a destination printing device given the ambient illumination at the location where the printer's output is intended to be viewed. As illustrated in Figure 3, at step S10, a target consisting of pairs of metamers, where each pair matches for one illuminant and mismatches for others, is produced. At Step S20, the target under the illumination for which characterization is desired is viewed. At Step S30, a best metameric pair match from the metameric pairs, which estimates the viewing illumination, is selected. At Step S40, an indicator of the estimated viewing illumination is entered, and at step S50, the characterization data to correspond to the estimated viewing illumination is adjusted.

Figure 4 illustrates a flowchart showing a process for producing targets. As illustrated in Figure 4, at step S22, a base color is chosen. At step S24, for each illuminant of interest, a metameric match to the base color is determined. At step S26, for each illuminant of interest, the base color adjacent to the metameric match to form a matched pair is placed.

Figure 5 illustrates a flowchart showing a process for producing the metameric pairs for each illuminant of interest. As illustrated in Figure 5, at step S100, Cyan, Magenta, Yellow, and black (CMYK) sweeps are printed. At step S200, color values of the CMYK sweeps are measured. At step S300, gray-balanced Tone Reproduction Curves based on the measured color values are built. At step S400, a value n into the gray-balanced Tone Reproduction Curves to determine CMY colorant values is inputted, and at step S500, the value n into the gray-balanced Tone Reproduction Curves to determine K colorant value is inputted.

While particular embodiments have been described, alternatives, modifications, variations, improvements, and substantial equivalents that are or may be presently unforeseen may arise to applicants or others skilled in the art. Accordingly, the appended claims as filed and as they may be amended are intended to embrace all such alternatives, modifications variations, improvements, and substantial equivalents.